

TITLE: Method of determining Alzheimer's disease  
predisposition by Angiotensin Converting Enzyme (ACE)  
genotyping  
INVENTOR(S): Owen, Michael John; Kehoe, Patrick Gavin; Williams,  
Julie  
PATENT ASSIGNEE(S): University of Wales College of Medicine, UK  
SOURCE: PCT Int. Appl., 27 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000000640	A2	20000106	WO 1999-GB1924	19990629 <--
WO 2000000640	A3	20000525		
W: AU, CA, JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9945183	A1	20000117	AU 1999-45183	19990629 <--
PRIORITY APPLN. INFO.:			GB 1998-14045	A 19980630
			GB 1998-27961	A 19981219
			WO 1999-GB1924	W 19990629

PI WO 2000000640 A2 20000106

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WO 2000000640	A2	20000106	WO 1999-GB1924	19990629 <--
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W: AU, CA, JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9945183	A1	20000117	AU 1999-45183	19990629 <--

AB A method of determining a predisposition to or prognosis of Alzheimer's Disease (AD) in a human by detecting the Angiotensin Converting Enzyme (ACE) genotype is disclosed. The method involves **genotyping** the **insertion/deletion** polymorphism in **ACE** (DCP1) gene by direct probing, polymerase chain reaction (PCR), restriction fragment length polymorphism (RFLP), or DNA chip technol. where detection of **one** or more copies of the **insertion** (I) allele is associated with predisposition to Alzheimer's Disease and low level of plasma **ACE** (ACEp). DNA samples to be tested are obtained from blood, cheek scrapings, mouthwash, body fluids, or tissue samples.

IT Genetic polymorphism  
(**insertion/deletion**, at **ACE** (DCP1) locus;  
method of determining Alzheimer's disease predisposition by  
**Angiotensin Converting Enzyme (ACE**  
) **genotyping**)  
IT Mutation  
(**insertion**; method of determining Alzheimer's disease  
predisposition by **Angiotensin Converting**  
**Enzyme (ACE) genotyping**)

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(FILE 'HOME' ENTERED AT 15:26:23 ON 28 FEB 2006)

FILE 'REGISTRY' ENTERED AT 15:26:37 ON 28 FEB 2006

E TCATCACCTCCGACAACAGAGG/SQEN

L1 2 S E3

FILE 'CAPLUS' ENTERED AT 15:29:02 ON 28 FEB 2006

L2 1 S L1

FILE 'REGISTRY' ENTERED AT 15:29:22 ON 28 FEB 2006  
 E TATGGAAACTGTTGCGGAGGAG/SQSN  
 L3 2 S E3

FILE 'CAPLUS' ENTERED AT 15:31:00 ON 28 FEB 2006  
 L4 1 S L3

FILE 'REGISTRY' ENTERED AT 15:36:56 ON 28 FEB 2006  
 L5 2 S TCATCACCTCCGACAACAGAGG/SQSN  
 L6 7 S TATGGAAACTGTTGCGGAGGAG/SQSN  
 L7 2 S CCTCTGTTGTGCGGAGGTGATGA/SQSN

FILE 'CAPLUS' ENTERED AT 15:40:09 ON 28 FEB 2006  
 L8 4 S L6

FILE 'CAPLUS, MEDLINE, BIOSIS' ENTERED AT 15:41:18 ON 28 FEB 2006  
 L9 4214 S (ANGIOTENSIN?(W) CONVERT?(W) ENZYME? OR "ACE") (S) (GENOTYP? OR  
 L10 214 S L9 (S) (THIRD OR THREE)  
 L11 51 S L10 (S) (INSERT? OR DETECT?)  
 L12 25 DUP REM L11 (26 DUPLICATES REMOVED)  
 L13 894 S L9 (S) (INSERT? OR DELET?)  
 L14 532 DUP REM L13 (362 DUPLICATES REMOVED)  
 L15 97 S L14 AND (SINGLE OR ONE OR SIMULTANEOUS?)  
 L16 54 S L15 AND PY<=2002

=> d L16 ibib kwic 21-24

L16 ANSWER 21 OF 54 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1999:187771 CAPLUS  
 DOCUMENT NUMBER: 131:30495  
 TITLE: Gene polymorphisms of the renin-angiotensin system in  
 essential hypertension  
 AUTHOR(S): Liu, Ying; Qiu, Changchun; Zhou, Wenyu; Zheng, Yong;  
 Hou, Shuqin; Cao, Jun  
 CORPORATE SOURCE: Department of Pathological Biochemistry, School of  
 Life Sciences, Faculty of Medicine, Tottori  
 University, Tottori, 683, Japan  
 SOURCE: Chinese Medical Journal (Beijing, English Edition) (   
 1999), 112(2), 115-120  
 CODEN: CMJODS; ISSN: 0366-6999  
 PUBLISHER: Chinese Medical Association  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

SO Chinese Medical Journal (Beijing, English Edition) (1999),  
 112(2), 115-120  
 CODEN: CMJODS; ISSN: 0366-6999

AB Objective: to determine whether angiotensin-converting enzyme (ACE) gene,  
 angiotensinogen (AGT) gene and angiotensin II receptor 1 (AT1R) gene are  
 implicated in Chinese essential hypertension (EH). Methods: the  
 case-control and haplotype-based haplotype relative risk (HHRR) study  
 consisted of 169 essential hypertensive subjects (HT), 152 normotensive  
 controls (NT) and 62 families. The polymorphisms of **insertion/  
 deletion** (I/D) allele of **ACE** gene and the microsatellite  
 allele of AT1R gene were determined in DNA extracted from peripheral blood  
 leukocytes by polymerase chain reaction (PCR). The variants of  
 AGT gene were screened by PCR-**single** strand conformation  
 polymorphism (PCR-SSCP) anal. and further identified by cloning and  
 sequencing. Results: the significant association between EH and D allele of  
 ACE gene was found. The difference of the microsatellite allele  
 distribution of AT1R gene between HT and NT groups was statistically  
 significant. By contrast, the distribution of A-20C genotype of AGT gene  
 was almost identical in HT and NT groups. No significant linkage

# WEST Search History





DATE: Tuesday, February 28, 2006

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
	<i>DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i>		
<input type="checkbox"/>	L8	L2 same (insert\$3 or delet\$3)	158
<input type="checkbox"/>	L7	L3 and (insert\$3 or delet\$3)	1296
<input type="checkbox"/>	L6	L4 same (insert\$3 or delet\$3)	31
<input type="checkbox"/>	L5	L4 and (insert\$3 or delet\$3)	184
<input type="checkbox"/>	L4	L2 same (third or three)	329
<input type="checkbox"/>	L3	L2 and (third or three)	1892
<input type="checkbox"/>	L2	((angiotensin\$ near2 convert\$3 near2 enzyme\$) or "ACE") same (genotyp\$3 or "PCR" or sequenc\$3)	2144
<input type="checkbox"/>	L1	((angiotensin\$ near2 convert\$3 near2 enzyme\$) or "ACE") same genotyp\$3	135

END OF SEARCH HISTORY